

# **EXHIBIT 2**

1                   IN THE UNITED STATES DISTRICT COURT  
2                   FOR THE DISTRICT OF NEW JERSEY

3

4

\*\*\*\*\*

4    IN RE:    VALSARTAN, LOSARTAN,  
5    AND IRBESARTAN PRODUCTS                   MDL No. 2875  
6    LIABILITY LITIGATION

7

\*\*\*\*\*

8    THIS DOCUMENT APPLIES TO ALL   HON ROBERT B.  
9    CASES   KUGLER

10

\*\*\*\*\*

11                               - CONFIDENTIAL INFORMATION -  
12                               SUBJECT TO PROTECTIVE ORDER

13

14                               Videotaped Deposition of PUNAM  
15    ANAND KELLER, Ph.D., commencing at 9:19 a.m.  
16    Eastern, on the 10th of March, 2022, at the  
17    offices of Duane Morris, 100 High Street,  
18    Boston, Massachusetts, before Maureen  
19    O'Connor Pollard, Registered Diplomate  
20    Reporter, Realtime Systems Administrator,  
21    Certified Shorthand Reporter.

22

23                               - - -

24

25                               GOLKOW LITIGATION SERVICES  
26    877.370.3377 ph | 917.591.5672 fax  
27                               deps@golkow.com

28

29

1 APPEARANCES:  
2

GOLOMB & HONIK PC

3 BY: RUBEN HONIK, ESQ.  
1835 Market Street, Suite 2900  
4 Philadelphia, Pennsylvania 19102  
215-327-9166  
5 ruben@honiklaw.com  
Representing the Plaintiffs

6  
7 SLACK DAVIS SANGER, LLP

BY: JOHN R. DAVIS, ESQ.  
8 BY: BETH QUESTAD, Paralegal (remotely)  
6001 Bold Ruler Way, Suite 100  
9 Austin, Texas 78746  
512-795-8686  
10 jdavis@slackdavis.com  
Representing the Plaintiffs

11

12 KANNER & WHITELEY, LLC

BY: CONLEE WHITELEY, ESQ. (Remotely)  
13 701 Camp Street  
New Orleans, Louisiana 70130  
14 504-524-5777  
c.whiteley@kanner-law.com  
15 Representing the Plaintiffs  
16

DUANE MORRIS, LLP

17 BY: SETH A. GOLDBERG, ESQ.  
BY: ALEKSANDER SMOLIJ, ESQ.  
18 BY: DANA B. KLINGES, ESQ. (Remote)  
30 South 17th Street  
19 Philadelphia, Pennsylvania 19103  
215-979-1164  
20 sgoldberg@duanemorris.com  
dklinges@duanemorris.com  
21 Representing the Defendants Zhejiang  
Huahai Pharmaceutical Co., Ltd.,  
22 Princeton Pharmaceutical Inc., Huahai  
U.S., Inc., and Solco Healthcare US,  
23 LLC  
24

1 APPEARANCES (Continued):

2

DUANE MORRIS LLP

3 BY: REBECCA BAZAN, ESQ. (Remote)  
505 9th Street, N.W., Suite 1000  
4 Washington, DC 20004-2166  
202-776-5253  
5 rebazan@duanemorris.com

Representing the Defendants Zhejiang  
6 Huahai Pharmaceutical Co., Ltd.,  
Prinston Pharmaceutical Inc., Huahai  
7 U.S., Inc., and Solco Healthcare US,  
LLC

8

9 CROWELL & MORING LLP

10 BY: DANIEL T. CAMPBELL, ESQ. (Remote)  
1001 Pennsylvania Avenue, NW  
Washington, DC 20004  
11 202-624-2774  
dcampbell@crowell.com  
12 Representing the Defendant Cardinal  
Health, Inc.

13

14 GREENBERG TRAURIG LLP

15 BY: TIFFANY M. ANDRAS, ESQ.  
77 West Wacker Drive, Suite 3100  
Chicago, Illinois 60601  
16 312-456-1065  
andrast@gtlaw.com  
17 Representing the Defendants Teva  
Pharmaceutical Industries, Ltd., Teva  
18 Pharmaceuticals SA, Inc., Actavis LLC,  
and Actavis Pharma, Inc.

19

20 HUSCH BLACKWELL LLP

21 BY: SARAH ZIMMERMAN, ESQ. (Remote)  
190 Carondelet Plaza  
St. Louis, Missouri 63105  
22 314-345-6664  
sarah.zimmerman@huschblackwell.com  
23 Representing the Defendant Express  
Scripts, Inc.

24

1 APPEARANCES (Continued):

2

GREENBERG TRAURIG, LLP

3 BY: DOUGLAS JOHNSON, ESQ. (Remote)

Terminus 200

4 3333 Piedmont Road NE

Suite 2500

5 Atlanta, Georgia 30305

678-553-2100

6 johnsondo@gtlaw.com

Representing the Defendants Teva

7 Pharmaceutical Industries, Ltd., Teva

Pharmaceuticals SA, Inc., Actavis LLC,

8 and Actavis Pharma, Inc.

9

WALSH PIZZI O'REILLY

10 BY: CHRISTINE I. GANNON, ESQ. (Remote)

Three Gateway Center

11 100 Mulberry Street, 15th Floor

Newark, New Jersey 07102

12 973-757-1017

Representing the Defendants Teva

13 Pharmaceutical Industries, Ltd., Teva

Pharmaceuticals SA, Inc., Actavis LLC,

14 and Actavis Pharma, Inc.

15

PIETRAGALLO GORDON ALFANO BOSICK &

16 RASPANTI, LLP

BY: FRANK H. STOY, ESQ. (Remote)

17 One Oxford Centre

Pittsburgh, Pennsylvania 15219

18 412-263-1840

fhs@pietragallos.com

19 Representing the Defendant, Mylan

Pharmaceuticals, Inc.

20

21

22

23

24

1 APPEARANCES (Continued):

2

NORTON ROSE FULBRIGHT US LLP

3 BY: D'LESLI M. DAVIS, ESQ. (Remote)

2200 Ross Avenue, Suite 3600

4 Dallas, Texas 75201

214-855-8000

5 dlesli.davis@nortonrosefulbright.com

Representing the Defendant McKesson

6 Corporation

7

HINSHAW & CULBERTSON, LLP

8 BY: GEOFFREY M. COAN, ESQ. (Remote)

53 State Street

9 Boston, Massachusetts 02109

617-213-7047

10 gcoan@hinshawlaw.com

Representing the Defendant SciGen

11 Pharmaceuticals

12

BARNES & THORNBURG, LLP

13 BY: KARA KAPKE, ESQ. (Remote)

11 S. Meridian Street

14 Indianapolis, Indiana 46204

317-231-6491

15 kara.kapke@btlaw.com

Representing the Defendants CVS

16 Pharmacy, Inc., and Rite Aid

Corporation

17

18 FALKENBERG IVES, LLP

BY: MEGAN A. ZMICK, ESQ. (Remote)

19 230 W. Monroe Street, Suite 2220

Chicago, Illinois 60606

20 312-566-4808

maz@falkenbergives.com

21 Representing the Defendant Humana

22

23

24

1 APPEARANCES (Continued):

2

BUCHANAN INGERSOLL & ROONEY PC

3 BY: ASHLEY D.N. JONES, ESQ. (Remote)

1700 K Street, N.W., Suite 300

4 Washington, DC 20006-3807

202-452-7318

5 ashley.jones@bipc.com

Representing the Defendant,

6 Albertsons, LLC

7

8 Videographer: Alex Jandrow

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

1	INDEX		
2	EXAMINATION		PAGE
3	PUNAM ANAND KELLER, Ph.D.		
4	BY MR. DAVIS		11
5			
6			
7	E X H I B I T S		
8	NO.	DESCRIPTION	PAGE
9	1	Punam Anand Keller's bio from Analysis Group website.....	19
10			
11	2	January 12, 2022 Expert Declaration of Professor Punam A. Keller, PhD.....	37
12			
13	3	Report to GTMRx National Task Force: Building Vaccine Confidence in the Medical Neighborhood. Background and Resources to Build Vaccine Confidence in the Health Neighborhood, March 2001.....	60
14			
15			
16	4	Document titled Generic Drugs: Questions & Answers.....	79
17			
18	5	Accutane label.....	138
19	6	May 13, 2013 Department of Justice press release, Generic Drug Manufacturer Ranbaxy Pleads Guilty and Agrees to Pay \$500 Million to Resolve False Claims Allegations, cGMP Violations and False Statements to the FDA.....	142
20			
21			
22	7	Copy of 21 U.S. Code Section 331 - Prohibited Acts.....	172
23			
24			



1			
2	8	Three graphs, Monthly ZHP Rxs by	
3		Valsartan Product.....	181
4	9	Diovan (valsartan) Tablets,	
5		Highlights of Prescribing	
6		Information.....	199
7	10	Excerpts of the Samuel Cisneros	
8		December 3, 2021 deposition	
9		transcript.....	210
10	11	MTD Opinion 3: Warranty Claim.....	225
11	12	2/3/22 invoice from Analysis	
12		Group.....	234
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

- - -  
- - -

DEPOSITION SUPPORT INDEX

Direction to Witness Not to Answer

PAGE LINE

None.

Request for Production of Documents

PAGE LINE

245 15

Stipulations

PAGE LINE

None.

Questions Marked Highly Confidential

PAGE LINE

None.

1 P R O C E E D I N G S

2

3 THE VIDEOGRAPHER: We are now  
4 on the record. My name is Alex  
5 Jandrow, I'm a videographer for Golkow  
6 Litigation Services.

7 Today's date is March 10, 2022,  
8 and the time is 9:19 a.m.

9 This video deposition is being  
10 held in Duane Morris LLP of Boston  
11 Massachusetts in the matter of  
12 Valsartan, Losartan, and Irbesartan  
13 Products Liability Litigation, MDL  
14 Number 2875, for the United States  
15 District Court, District of New  
16 Jersey.

17 The deponent is Punam Keller,  
18 MD.

19 And the court reporter is  
20 Maureen O'Connor Pollard.

21 Counsel will now introduce  
22 themselves for the record.

23 MR. DAVIS: John Davis and  
24 Ruben Honik for the plaintiffs.

1 MR. GOLDBERG: Seth Goldberg on  
2 behalf of the ZHP defendants and  
3 defendants.

4 MR. SMOLIJ: Alek Smolij on  
5 behalf of the ZHP defendants.

6 MS. ANDRAS: Tiffany Andras on  
7 behalf of Teva and Actavis  
8 Pharmaceuticals.

9 MR. DAVIS: Good morning,  
10 Dr. Keller. How are you today?

11 ///

12 PUNAM ANAND KELLER, Ph.D.,  
13 having been duly identified and sworn, was  
14 examined and testified as follows:

15 ///

16 THE WITNESS: And the first  
17 thing I want to do is, it's not MD,  
18 it's Ph.D.

19 EXAMINATION

20 BY MR. DAVIS:

21 Q. Okay. Let me try that again.

22 Good morning, Dr. Keller. How  
23 are you this morning?

24 A. Good. How are you?

1 opinions and the basis and reasons for them?

2 A. Yes.

3 Q. Okay. You didn't do any kind  
4 of survey or empirical study as part of your  
5 assignment in this case, did you?

6 A. No, because I felt that there  
7 was evidence from consumers as well as  
8 literature from consumers that were  
9 sufficient to support my opinions.

10 Q. We'll get into that a little  
11 bit later.

12 But your answer is no, you did  
13 not do a survey or any kind of empirical  
14 study as part of your assignment in this  
15 case?

16 A. Yes.

17 Q. Okay. Have you been asked to  
18 at some point in the future?

19 A. No.

20 Q. I think you said earlier that  
21 you've done some consumer messaging in the  
22 field of healthcare, is that correct?

23 A. Yes.

24 Q. Okay. Can you describe that

1 have an opinion.

2 Q. Well, the question is do you  
3 know.

4 A. No.

5 Q. Are you familiar with the fact  
6 that generic pharmaceutical manufacturers do  
7 not routinely engage in promotional  
8 activities for their drugs?

9 A. I do not know.

10 Q. When I refer to FDA-approved  
11 labeling, do you know what that means?

12 A. Could you be more specific?

13 Q. Sure.

14 Do you know what an  
15 FDA-approved label is?

16 A. No.

17 Q. Have you looked at any  
18 FDA-approved labeling for any of the generic  
19 valsartan products at issue in this case?

20 A. I have looked at some labels of  
21 valsartan. I do not know if they are  
22 FDA-approved or not.

23 Q. In general terms, the labels  
24 that you looked at, what kind of information

1 decision rule, do you not?

2 A. I do not say that.

3 Q. Take a look at paragraph 9 of  
4 your report, first bullet point. You say in  
5 the middle of that bullet point, "In doing  
6 so, Dr. Conti's analysis implicitly relies on  
7 a uniform noncompensatory decision-rule for  
8 calculating damages."

9 Do you see that?

10 A. Yes.

11 Q. So you are saying that she's  
12 applying a uniform noncompensatory decision  
13 rule, do you not?

14 A. You forgot a critical word.  
15 No, I did not say that, I said she is  
16 implicitly applying.

17 Q. How is that different from her  
18 applying, which is my question?

19 A. The different between an  
20 explicit and an implicit application. She  
21 does not mention a noncompensatory decision  
22 rule, but her assertions are consistent with  
23 a noncompensatory decision rule, which is why  
24 I said she implicitly applies a

1 noncompensatory decision rule.

2 Q. Okay. Thank you for that.

3 That was going to be my next question, is  
4 Dr. Conti never uses that term in her report,  
5 does she?

6 A. No.

7 Q. Thank you.

8 That's a term -- compensatory  
9 decision rules, noncompensatory decision  
10 rules, those are terms that are borne out of  
11 the field of sort of behavioral science,  
12 right? Consumer behavior, consumer  
13 psychology, your field of expertise, correct?

14 A. As I mentioned in my testimony  
15 earlier, the foundation for some of this work  
16 on compensatory/noncompensatory decision  
17 rules came from economists, and I mentioned  
18 several, Simon, Tversky, Kahneman, amongst  
19 others.

20 Simon actually was the first  
21 one that came up, from what I know, or is at  
22 least given credit for the first  
23 noncompensatory rule satisfying. This is  
24 Herbert Simon, he's an economist.



1 Q. This is behavioral economics,  
2 correct?

3 A. At that time it was not defined  
4 as such, but he's an economist, and now it is  
5 commonly adopted in behavioral economics as  
6 well.

7 Q. Let's go to paragraphs 21  
8 through 28 of your report. And this is where  
9 you set forth some discussion and definitions  
10 of what you mean by compensatory decision  
11 rules and noncompensatory decision rules, is  
12 that correct?

13 A. Yes.

14 Q. For example, in paragraph 22  
15 you state that "The compensatory  
16 decision-rule involves physicians and  
17 consumers placing a higher value of one drug  
18 feature to compensate for a lesser value of  
19 another feature," correct?

20 A. Yes.

21 Q. There's an assumption there, is  
22 there not, that the information regarding  
23 those features is available for them to  
24 actually weigh, correct?

1 A. No.

2 MR. GOLDBERG: Objection.

3 Asked and answered.

4 BY MR. DAVIS:

5 Q. In your report on paragraph 38  
6 you mention that Accutane "has a number of  
7 potentially serious side effects, including:  
8 eye irritation; skin infection; bone  
9 tenderness; vision loss; birth defects (in  
10 pregnant women); skin inflammation."

11 Do you see that?

12 A. Yes.

13 Q. Where did you get that  
14 information from?

15 A. Footnote 62, and it's in  
16 Appendix B of my report.

17 Q. Okay. So that is -- that  
18 appears to be the label, so you did --

19 A. I didn't know that's what the  
20 label was. Thank you.

21 Q. Yes. So this is the label. So  
22 you have looked at this?

23 A. Yes.

24 Q. And that's how you pulled out

1 for example, these potential side effects,  
2 was from looking at what's been marked as  
3 Exhibit 5, correct?

4 A. Sorry, can you repeat the  
5 question? What has been -- sorry, can you  
6 ask the question again?

7 Q. Sure.

8 The way you came to understand  
9 that Accutane carries the risk of these side  
10 effects that you discuss in paragraph 38 is  
11 because, as you cite in footnote 62, you  
12 actually went and looked at the label for the  
13 drug, correct?

14 A. That's right.

15 Q. Okay. And that's where those  
16 side effects were disclosed?

17 A. I'm sure -- there may be more,  
18 but that's where the ones I've listed were  
19 disclosed, yes.

20 Q. So essentially what happened  
21 here is the FDA approved Accutane, correct?  
22 The FDA granted approval for Accutane to be  
23 marketed to Roche, which was the brand  
24 company as you see there.

1 Do you understand that?

2 A. I take your word for it.

3 Q. And they approved Accutane  
4 despite the drug carrying these disclosed  
5 side effects, correct?

6 A. I'll take your word for it.

7 Q. And left it up to physicians  
8 and consumers to weigh the costs and benefits  
9 of taking the medicine with those -- with the  
10 knowledge of those disclosed side effects in  
11 the label, right?

12 A. Yes.

13 Q. Okay. Let me ask you, how do  
14 you think users of --

15 A. Should I put this away?

16 Q. Sure, if you want to.

17 How do you think users of  
18 generic Accutane manufactured by Ranbaxy  
19 weighed the fact that that generic Accutane  
20 was contaminated?

21 A. Could you please repeat the  
22 question?

23 Q. Sure.

24 Are you familiar with a company

1       called Ranbaxy?

2               A.       No.

3               Q.       Okay. Let me mark something  
4       else for you.

5                       MR. DAVIS: I'm handing  
6       Exhibit 6 to the reporter to be  
7       marked.

8                       (Whereupon, Keller Exhibit  
9       Number 6 was marked for  
10      identification.)

11      BY MR. DAVIS:

12              Q.       Okay. I'm handing you a --  
13      Exhibit 6, for the record, is a US Department  
14      of Justice press release titled "Generic Drug  
15      Manufacturer Ranbaxy Pleads Guilty and Agrees  
16      to Pay \$500 Million to Resolve False Claims  
17      Allegations, cGMP Violations and False  
18      Statements to the FDA."

19                      Do you see that?

20              A.       I see it.

21              Q.       That's dated May 13, 2013?

22              A.       I see.

23              Q.       Okay. So, in fact, if you --  
24      just to orient you, if you go back to

1 Exhibit 5 just for a moment, which is the  
2 Roche label for Accutane, do you see what the  
3 generic name for that drug is?

4 A. Exhibit -- where? It's a big  
5 document.

6 Q. Well, actually it's in your  
7 report at paragraph 38, "As an example,  
8 Accutane, or isotretinoin."

9 A. Yes.

10 Q. Do you know that Accutane's  
11 generic name is isotretinoin?

12 A. Yes.

13 Q. Okay. I'm going to direct your  
14 attention to page 2 of Exhibit 6, which is  
15 this DOJ announcement.

16 A. Okay.

17 Q. And you'll see in the second  
18 paragraph on that page, "Ranbaxy USA admitted  
19 to introducing into interstate commerce  
20 certain batches of adulterated drugs that  
21 were produced at Paonta Sahib in 2005 and '6,  
22 including Sotret, gabapentin, and  
23 ciprofloxacin."

24 And then it says, "Sotret is

1 Ranbaxy's branded generic form of  
2 isotretinoin," which is Accutane, correct?

3 A. Is the generic form.

4 Q. Right.

5 A. Yes.

6 Q. So do you see there that  
7 Ranbaxy admitted that in 2005 and '6 that  
8 they distributed adulterated isotretinoin?

9 A. According to this statement,  
10 yes.

11 Q. Okay. So my question is, how  
12 do you think consumers of Ranbaxy's Sotret or  
13 isotretinoin manufactured by them who got  
14 that drug in 2005 and 2006 were able to weigh  
15 at the moment they went to the pharmacy and  
16 got it the fact that it was adulterated?

17 MR. GOLDBERG: Objection to  
18 form.

19 I think it would be fair to  
20 allow the witness to review the  
21 document, given the question.

22 BY MR. DAVIS:

23 Q. You don't need to review the  
24 document to answer the question. I'm asking

1           it's going to take longer we'll go off  
2           the record. But we don't go off the  
3           record automatically just because a  
4           document is presented. That's how it  
5           goes.

6       BY MR. DAVIS:

7           Q.       Feel free to give the document  
8           a cursory review.

9           A.       I'm sorry, I'm going to  
10          undertake my task so that I can answer your  
11          question to the best of my ability.

12          Q.       Sure. Okay.

13          A.       Thank you.

14          Q.       Review the document.

15          A.       Thank you.

16                   (Witness reviewing document.)

17          A.       Thank you.

18          Q.       Sure. So let's start with the  
19          portion of the document that I called out to  
20          you.

21                   You agree that Ranbaxy admitted  
22          to distributing in 2005 and 2006 certain  
23          batches of adulterated isotretinoin, which is  
24          generic Accutane, correct?



1 A. Yes.

2 Q. Okay. So my question is, how  
3 can consumers who purchased those drugs in  
4 2005 and '6 have weighed the fact that they  
5 were adulterated at the time that they  
6 purchased them?

7 A. You are making an assumption  
8 that consumers uniformly would have wanted to  
9 weigh that fact.

10 Q. No, that's not my question, and  
11 you're not answering my question.

12 My question is, how could they  
13 have weighed that information when it wasn't  
14 disclosed to them?

15 A. But the assumption is that they  
16 would even want to. So if I don't want to,  
17 the issue of how I could is irrelevant.

18 Q. Well, you're taking it --  
19 you're taking my question and you're  
20 answering a different question.

21 A. I see.

22 Q. My question is, how can  
23 consumers who purchased adulterated Ranbaxy  
24 isotretinoin in 2005 and 2006 that was

1 adulterated, how could they have weighed the  
2 fact that it was adulterated? If they wanted  
3 to weigh that fact, how could they have  
4 weighed that fact that it was adulterated?  
5 They couldn't, right?

6 A. Again, I'll explain why I'm  
7 having a hard time answering that question  
8 directly.

9 Based on my understanding of  
10 consumer behavior, there are consumers who  
11 think drugs are adulterated when they're not  
12 and consider that. And the example that I  
13 give in my report was on -- because we were  
14 talking about COVID vaccine earlier, about  
15 bleach, and I cited a supporting document,  
16 you know, something from the CDC on the  
17 percentage of people that were using bleach  
18 because they thought that was more  
19 efficacious for them or safer or whatever set  
20 of reasons they had that I'm unsure of than  
21 the COVID-19 vaccine.

22 So I don't -- I said this  
23 earlier, I don't think that consumers need to  
24 get specific information in order for them to

1 include features, whether they're benefits or  
2 costs or both in some cases, in order to make  
3 a determination of how they impact the value  
4 that they are assessing.

5 Q. You don't think consumers are  
6 entitled -- you don't think these Ranbaxy  
7 isotretinoin consumers were entitled to know  
8 that the drug they got was adulterated? Is  
9 that what you're saying?

10 A. No, I did not say that. I  
11 actually don't know what you mean by  
12 "entitled."

13 Q. You don't think it would have  
14 been right for them to know that the drug  
15 they were getting was adulterated?

16 A. There are some consumers who  
17 would say, It is my right to know, and there  
18 are others who would say, I don't care.

19 There is a range of consumer  
20 behavior, and I don't think that you can  
21 uniformly assume any consumer would be  
22 exactly the same in this context of they  
23 would feel that they have the right to know.

24 Q. But you're not answering my

1 question. You're answering a different  
2 question, which is how they might have  
3 weighed that information or not have weighed  
4 that information.

5 My question is, it wasn't  
6 disclosed to them, so even if they wanted to  
7 weigh it they couldn't have, right? Even if  
8 they would have considered that in their  
9 decision-making, they couldn't have, right,  
10 because it wasn't disclosed to them. Would  
11 you agree with that?

12 A. So you're saying make the  
13 assumption that people -- that there were  
14 people who wanted to know, and then -- you're  
15 asking me to make a lot of assumptions.

16 Q. Well, I don't think it's a big  
17 assumption to assume that people would want  
18 to know that their drug was contaminated.

19 A. Some will and some will not,  
20 and that's what I said.

21 Q. Assume it for me, Dr. Keller,  
22 assume that there were patients of Ranbaxy's  
23 Sotret who would have wanted to know that  
24 information.

1 A. Okay.

2 Q. But they didn't know that  
3 information at the time they purchased the  
4 drug, right?

5 A. Correct.

6 Q. Okay. How could they have  
7 weighed that information when it wasn't  
8 disclosed to them? They couldn't have,  
9 right? They could not have weighed that  
10 information, correct?

11 A. They could not have weighed the  
12 specific information, but they could have  
13 weighed related information.

14 Q. What do you mean by "related  
15 information"?

16 A. You know, there are consumers  
17 out there who believe that pure drugs is an  
18 oxymoron, and that -- you know, and as I  
19 state in my report in Section IV, I think it  
20 was IV.B, which is what we were referring to  
21 earlier, there are some consumers who learn  
22 over time that things that they thought were  
23 safe were not safe, and things that they  
24 thought may have not been safe have reentered

1 don't think consumers of pharmaceuticals  
2 dispensed in the US should be entitled to a  
3 belief or an expectation that those drugs are  
4 dispensed to them as described and approved  
5 by the FDA?

6 A. Again, I don't believe that is  
7 the case for all consumers. I think many  
8 consumers don't think about whether the drug  
9 is approved or not approved, or who approves  
10 it or doesn't approve it.

11 And I'm going to break one of  
12 my own rules and give you an example where if  
13 I was taking a drug, and it could be this one  
14 that you have as an example, and I thought it  
15 was working brilliantly for me, I might not  
16 want to know that the drug -- I mean, sorry,  
17 I can say drug, yeah -- that the drug was  
18 adulterated because I would like to continue  
19 taking the drug without any trepidation.

20 Q. You might not want to know?

21 A. I might not want to know.

22 Q. Well, what if -- I mean, we're  
23 talking about just one manufacturer's version  
24 of generic Accutane, you wouldn't want to

1 know that so you could just take another  
2 manufacturer's version of generic Accutane  
3 that wasn't adulterated?

4 A. It's a hypothetical, so I'm  
5 giving you a hypothetical back, and that is,  
6 if I like this one that I'm taking and it's  
7 worked for me -- and back to my framework  
8 that I talk about in the model, and I'll use  
9 MICI this time, which is, depending on the  
10 message that I got -- and I can give you  
11 examples, depending on -- I'm focusing on the  
12 individual differences, that if I've tried  
13 other acne medicines and they haven't worked  
14 for me, and then I find one that I really  
15 like and it seems to work for me, and then  
16 there is this information out there, I'm  
17 saying that there are some consumers in those  
18 situations that might not want to know or not  
19 care about this information about the  
20 adulteration from this specific batch because  
21 they don't want to switch, they don't want to  
22 consider any alternative products.

23 Q. Do you understand that the  
24 point of our generic drug system is that all

1 the generics are supposed to work in the same  
2 way to each other and to the brand?

3 MR. GOLDBERG: Objection.

4 BY MR. DAVIS:

5 Q. Do you understand that?

6 MR. GOLDBERG: Objection to  
7 form. Asked and answered.

8 A. I am not an expert on how  
9 generics are supposed to work, and I will not  
10 give you an opinion on that.

11 BY MR. DAVIS:

12 Q. Let's back up for a second.  
13 You talk a lot about this  
14 choice exercise that consumers make in the  
15 healthcare context, right?

16 A. Which context are you speaking?  
17 We were talking about how a consumer might  
18 value the drug that they have, so when you  
19 say "choice exercise," I'm trying to  
20 understand the context.

21 Q. Sure.

22 Your whole report is about  
23 healthcare decision-making, right? And that  
24 involves a choice, right?



1           A.       I would say that that's a bit  
2       of a mischaracterization. The bulk of my  
3       report is focused on how consumers would  
4       assess the value or worth of a drug to them.

5           Q.       Okay. And once they make that  
6       assessment, at what point is the decision  
7       finalized for them?

8           A.       Lots of cases, never. In some  
9       cases, they try one, they never switch. That  
10      varies by consumer.

11          Q.       Well, the choice is culminated  
12      when they go buy the drug, right? They're  
13      acting, would you agree --

14          A.       No, no.

15          Q.       Would you agree that a  
16      consumer, when they go fill a prescription,  
17      they're acting on a choice that they've made,  
18      correct? They may -- I hear what you're  
19      saying, they may reevaluate that choice in  
20      the future, but they're acting on a choice  
21      that they made prior to that, because they  
22      had to -- I mean, it's just common sense, you  
23      go fill a prescription, you're doing an act,  
24      right?

1           A.       As I mentioned to you earlier,  
2       the consumer value is defined as a comparison  
3       of benefits and costs, and the price they pay  
4       or the act of actually exchanging a product  
5       for money is only one aspect of the cost.

6           Q.       It's an action, though, that a  
7       consumer is taking, correct?

8           A.       It's one of several.

9           Q.       As a result of the decision and  
10      choice analysis that they went through prior  
11      to engaging in that act, right?

12          A.       I take objection to that. As I  
13      explain in my report, and this is in Section  
14      IV.B of my report, consumers use a variety of  
15      different methods to make those choices.  
16      Some of them are noncompensatory or  
17      reflexive, they haven't thought about  
18      anything, they've just gone and done it  
19      spontaneous, others -- there's a range --  
20      others will spend a lot of time and think  
21      about the plusses and minuses. There's a  
22      range.

23          Q.       I'm not going into the  
24      qualitative aspect of that choice. All I'm

1 saying is that in order to act, which is to  
2 go fill the prescription at the pharmacy,  
3 some level of choice had to be made to go do  
4 that. We're not talking about zombies here  
5 who are just like, you know, going to the  
6 pharmacy, this is a choice that humans make  
7 to go fill a prescription, is it not?

8 A. I would say some will go fill  
9 and some will not. And again, as is  
10 explained in my report, many consumers do not  
11 fill their prescriptions, and many consumers  
12 who fill their prescriptions do not take  
13 their drugs. So those are also actions.

14 Q. So with this Sotret example,  
15 which consumers affirmatively made the choice  
16 to go get adulterated Sotret from Ranbaxy?

17 A. I have no idea.

18 Q. None, right?

19 A. Well, no, that is -- I have no  
20 information on that. I can't tell you that.

21 Q. If you don't know -- if they  
22 didn't know about it, how could they  
23 affirmatively go choose that at the time?  
24 They can't, right?

1 Q. No, I was resetting our --

2 A. I'm sorry. Okay.

3 Q. -- context here.

4 Have you examined in any detail  
5 how the fact of adulteration in this case,  
6 for example, affects a company's ability to  
7 supply their drugs into the US?

8 A. I need a clarification.

9 Q. Sure.

10 A. In this case are we talking  
11 about the Ranbaxy case, or are we talking  
12 about the VCD case, or some other case?

13 Q. I'm just talking generally  
14 about pharmaceutical prescription drugs.

15 A. Okay.

16 Q. Did you as part of this  
17 assignment, or not as part of this  
18 assignment, just generally, have you ever  
19 studied how the fact of a prescription drug's  
20 adulteration affects its ability to be  
21 distributed, marketed, sold, dispensed in the  
22 United States?

23 MR. GOLDBERG: Objection.

24 Ambiguous and compound.

1           A.       I am not an expert on many of  
2       the things that were raised, and I'm not  
3       going to give an opinion.

4       BY MR. DAVIS:

5           Q.       So you haven't looked into how  
6       the fact of adulteration might affect the  
7       supply of a drug in the US?

8           A.       Not prior to this case.

9           Q.       Did you in this case?

10          A.       I reviewed Dr. Conti's report,  
11       so yes.

12          Q.       Okay. I'm asking not did you  
13       review Dr. Conti's report. I'm asking if you  
14       did any independent analysis of your own how  
15       the fact of adulteration under the law might  
16       affect the supply or the ability of a  
17       manufacturer to supply its drug product in  
18       the United States market?

19          A.       No. I am a consumer behavior  
20       expert. I have no opinion on drug supply for  
21       the example you've given.

22                   MR. DAVIS: I'm going to mark

23               Exhibit 7.

24                   ///

1 (Whereupon, Keller Exhibit  
2 Number 7 was marked for  
3 identification.)

4 BY MR. DAVIS:

5 Q. I understand you're not a  
6 lawyer, Dr. Keller. What I'm showing --

7 MS. ANDRAS: Can you please  
8 identify it with specificity on the  
9 record?

10 MR. DAVIS: Sure. For the  
11 record, this is Exhibit 7, which is 21  
12 USC 331, part of the US Code entitled  
13 "Prohibited Acts."

14 BY MR. DAVIS:

15 Q. Do you see that?

16 A. Yes.

17 Q. Do you have familiarity with  
18 what the US Code is?

19 A. No.

20 Q. Do you understand that that's  
21 federal law enacted by congress, signed by  
22 the President?

23 MR. GOLDBERG: Objection to  
24 form. Foundation.

1           A.       I did not know that. I'm not  
2       an expert on the law.

3       BY MR. DAVIS:

4           Q.       Okay. I'm granting you that.

5                    It says there that, "The  
6       following acts and the causing thereof are  
7       prohibited." And then it says, "(a) The  
8       introduction or delivery" into -- sorry.  
9       "The introduction or delivery for  
10      introduction into interstate commerce of  
11      any," and it lists several things, including  
12      drugs, that are adulterated or misbranded.

13                   Do you see that?

14          A.       Yes.

15          Q.       Okay. And then (c) says, "The  
16      receipt in interstate commerce of any" of the  
17      same categories, including drugs, that are  
18      adulterated or misbranded, and the delivery  
19      or preferred delivery thereof for pay or  
20      otherwise.

21                   Do you see that?

22          A.       I do.

23          Q.       Okay. Were you aware -- your  
24      testimony is you're not aware of these

1 prohibitions under federal law, are you?

2 A. Correct.

3 Q. Okay. Thank you.

4 MR. GOLDBERG: Are you done  
5 with this one?

6 MR. DAVIS: For the moment,  
7 yes.

8 BY MR. DAVIS:

9 Q. Do you have any opinion about,  
10 or -- let me rephrase it.

11 Do you have any understanding  
12 about whether the at-issue VCDs in this case  
13 were deemed to be adulterated or misbranded  
14 under the law?

15 A. I don't have an opinion.

16 Q. Okay. You don't have any  
17 understanding, correct?

18 A. That's not what you asked. You  
19 asked if I had an opinion. So could you  
20 reask the question?

21 Q. Sure.

22 MR. HONIK: I'd like Maureen to  
23 read it exactly as John posed.

24 THE WITNESS: Thank you.



1 (Whereupon, the reporter read  
2 back the question:

3 QUESTION: Do you have any  
4 understanding about whether the  
5 at-issue VCDs in this case were deemed  
6 to be adulterated or misbranded under  
7 the law?)

8 MR. HONIK: Not opinion.

9 A. I apologize.  
10 Could you read that again?

11 (Whereupon, the reporter read  
12 back the question:

13 QUESTION: Do you have any  
14 understanding about whether the  
15 at-issue VCDs in this case were deemed  
16 to be adulterated or misbranded under  
17 the law?)

18 A. I am not a lawyer. I do not --  
19 I am not going to offer any opinion on that.  
20 BY MR. DAVIS:

21 Q. Okay. And the question was,  
22 you don't have any understanding of whether  
23 they were or not, correct?

24 A. Please explain what you mean by

1 "understanding."

2 Q. So my question was, do you have  
3 any understanding of whether the at-issue  
4 VCDs in this case were deemed to be  
5 adulterated or misbranded under the law?

6 A. I will answer to the best of my  
7 ability. I have read the -- as you can see  
8 in Appendix B of my report, I have read a  
9 couple of legal documents that explain that  
10 some of the at-issue VCDs were found to be  
11 adulterated and unbranded under the law.

12 Q. Okay. But you're not sure how  
13 many, right? You said "some." You're not  
14 sure whether it's some or all of them, are  
15 you?

16 A. I am -- my understanding, which  
17 is what you asked, is that of the VCDs that  
18 were voluntarily recalled by the  
19 manufacturers, some of them, not all of them,  
20 were adulterated or unbranded.

21 Q. You're not sure how many that  
22 is, though?

23 A. No.

24 Q. Okay. And you didn't do any

1 independent analysis of whether that's true  
2 or not true, right?

3 A. Correct.

4 Q. Okay. Do you have any  
5 understanding of whether there are  
6 valsartan-containing drugs out there that  
7 don't have and never had NDMA and NDEA in  
8 them?

9 A. I am not an expert. I will  
10 qualify that some of the material that I have  
11 in my supporting documents suggested --  
12 indicated to me that there were levels of  
13 these two impurities that you just mentioned,  
14 but I am assuming they were acceptable  
15 levels.

16 Q. So my -- that's not my  
17 question, though. My question -- and I'll  
18 reask it just to make sure we're clear, my  
19 question is, do you have any understanding of  
20 whether there were not at-issue VCDs  
21 manufactured by entities other than the  
22 defendants in this case that did not have any  
23 NDEA or NDMA in them?

24 A. I have no information on them.

1 Q. You have no information on  
2 that.

3 Didn't look at it?

4 A. No.

5 Q. Didn't investigate it?

6 A. No. Not part of my task.

7 Q. Do you have any understanding  
8 of whether NDMA or NDEA are supposed to be in  
9 valsartan drugs?

10 A. I'm not an expert on the  
11 formulation of these drugs. I have no  
12 opinion.

13 Q. Okay. So you don't know  
14 whether these two substances are supposed to  
15 or not supposed to be in valsartan drugs?

16 A. I am not an expert. I cannot  
17 comment as to the presence, absence, or  
18 extent to which these are or are not  
19 necessary for these drugs.

20 Q. Well, the drugs were recalled,  
21 as you said, right?

22 A. (Nodding in the affirmative).

23 Q. Doesn't that indicate to you  
24 that they weren't supposed to be in there?

1           A.       My caveat is when you say  
2       they're not supposed to be there, my  
3       understanding is that they are there, it's  
4       just not they're not supposed to be there  
5       above certain levels, and that's what I'm  
6       qualifying.

7           Q.       But you don't know whether  
8       they're supposed to be there at all or not,  
9       correct?

10                   MR. GOLDBERG: Objection to  
11       form. Foundation.

12           A.       No.

13       BY MR. DAVIS:

14           Q.       Did you look at a valsartan  
15       label like you looked at the Accutane label?

16           A.       I already testified that I  
17       looked at valsartan product labels.

18           Q.       Can you point me -- it may be  
19       in there, I just want you to point me to  
20       where in your materials considered that would  
21       be.

22           A.       I can show you from my report,  
23       but I don't have the binder of all the -- and  
24       actually there's maybe six on a page, they're

1       visuals, in case you have those materials and  
2       you're trying to look for them, but I can  
3       help.

4                               (Witness reviewing document.)

5               A.       I'm -- I wish I had my  
6       materials in front of me, but I'm going to --  
7       I don't want to guess. It could be in the  
8       drugs.com or the MedlinePlus. I'm picturing  
9       the page in front of me, and they're pictures  
10      of multiple labels with on the left side the  
11      name, and on the right side the drug  
12      manufacturer and the place of manufacture.  
13      That's what I'm picturing.

14              Q.       Okay. You say -- flip to  
15      page 30 of your report, if you don't mind,  
16      Exhibit 1.

17              A.       Of course.

18              Q.       The title of that section is  
19      "Real-world Evidence Indicates that the  
20      At-Issue VCDs Held Value," correct?

21              A.       Yes.

22              Q.       Okay. Did you look at any  
23      sales data of -- sorry.

24                               Did you look at any sales data

1 of the actual sales of these drugs after the  
2 recalls were announced?

3 A. Only information that was part  
4 of Dr. Conti's report, not otherwise.

5 Q. So do you know what happened to  
6 sales of these products after the recalls?

7 A. I don't recall.

8 Q. Sorry, give me a few moments  
9 here. I should have two copies of all this  
10 somewhere, but I don't. I'm just going to  
11 mark one, it's big enough for, I think, you  
12 to see it.

13 MR. DAVIS: This is being  
14 marked as Exhibit 8, let's start with  
15 that.

16 (Whereupon, Keller Exhibit  
17 Number 8 was marked for  
18 identification.)

19 BY MR. DAVIS:

20 Q. Let me represent to you that  
21 what I'm showing you there is the monthly  
22 prescription data for --

23 A. Should I put the -- my report  
24 away?

1 A. Okay. Then yes.

2 MR. GOLDBERG: Objection to  
3 form.

4 BY MR. DAVIS:

5 Q. Do you understand why for ZHP  
6 the monthly sales dropped to zero?

7 A. I don't have that information.

8 Q. Did you come to any  
9 understanding or investigate whether similar  
10 to Ranbaxy, ZHP was barred from importing  
11 prescription drug products to the US?

12 A. I just want to make sure,  
13 exporting, that ZHP was barred from -- we  
14 barred them from imports of their product,  
15 right?

16 Q. Yes. ZHP products were made  
17 illegal to sell in the US, correct?

18 A. Yes.

19 MR. GOLDBERG: Objection to  
20 form.

21 BY MR. DAVIS:

22 Q. And subject to seizure by  
23 federal agents if they were imported or  
24 attempted to be distributed?



1           A.       I am not an expert on this  
2       process. I cannot form an opinion.

3           Q.       Well, you sort of do form an  
4       opinion, though. If you look at paragraph 71  
5       of your report, you have a hypothetical  
6       supply-demand curve, do you not?

7           A.       Excuse me, I need to get there.  
8                    Could you ask that question  
9       again?

10          Q.       Sure.  
11                    You said you don't have an  
12       opinion one way or the other on whether ZHP  
13       was barred from importing or selling its  
14       products in the US. Am I right about that?

15          A.       I'm not sure, that may have  
16       been before your last question, I don't  
17       recall that as your last question, so I'm  
18       trying to be accurate.

19                  MR. DAVIS: Could you read that  
20       last question? Sorry.

21                   (Whereupon, the reporter read  
22       back the following:

23                  QUESTION: And subject to  
24       seizure by federal agents if they were

1 imported or attempted to be  
2 distributed?

3 THE WITNESS: I am not an  
4 expert on this process. I cannot form  
5 an opinion.

6 QUESTION: Well, you sort of do  
7 form an opinion, though. If you look  
8 at paragraph 71 of your report, you  
9 have a hypothetical supply-demand  
10 curve, do you not.

11 THE WITNESS: Excuse me, I need  
12 to get there.

13 Could you ask that question  
14 again?

15 QUESTION: Sure.

16 You said you don't have an  
17 opinion one way or the other on  
18 whether ZHP was barred from importing  
19 or selling its products in the US. Am  
20 I right about that?)

21 BY MR. DAVIS:

22 Q. So let me -- I'll withdraw the  
23 last question.

24 You do at paragraph 71 on

1 page 43, the next page over, supply a  
2 hypothetical supply-demand curve, do you not?

3 A. Several.

4 Q. Well --

5 A. Several demand curves, and  
6 therefore --

7 Q. You have several demand curves,  
8 but you have one supply, correct?

9 A. Yes, so a combination would be  
10 several supply-demand curves.

11 Q. Right. But with one supply  
12 line, correct?

13 A. Yes.

14 Q. And this is hypothetical,  
15 right? This is a hypothetical supply-demand  
16 curve, is it not?

17 A. Well, it is a figure, and the  
18 changes or the alternatives of the demand  
19 curve that I'm sharing with you here reflect  
20 my argument that consumers would have  
21 different assessments of what the drug would  
22 be -- what the at-issue VCD would be to them,  
23 and based on the compensatory/noncompensatory  
24 decision rules and MICI.

1                   And some consumers would say, I  
2     don't want any of this product, it is not  
3     worth anything to me, all the way to the  
4     other end of the continuum where you have  
5     some consumers who would say, I'm consuming  
6     these impurities in multiple forms and it's  
7     of no consequence to me, and everything in  
8     between.

9                   That's what these alternative  
10    demand curves, or multiple demand curves are  
11    meant to represent.

12                  So when you ask the question,  
13    you know, are they hypothetical demand  
14    curves, yes, they are, as that they're not  
15    based on data, nor is the supply curve, by  
16    the way, based on data, they're just  
17    representing how my frameworks and opinions  
18    would translate into alternative demand  
19    curves.

20                  Q.     Okay. And that was -- I think  
21    you've answered my next question, which is,  
22    this is not informed by any look at data, is  
23    it? These are hypothetical scenarios you're  
24    putting forward, right?

1 A. Yes.

2 Q. And in fact, your supply curve  
3 is just inconsistent with the facts if you  
4 accept, for example, the ZHP graph as  
5 actually representing the sales situation,  
6 correct?

7 A. It is incorrect, because the  
8 example that I'm giving you in my report is  
9 that one can retrospectively go to those  
10 consumers -- because there was supply, they  
11 were supplied the product. I mean, I'm not a  
12 lawyer, but how do you have a recall if  
13 there's -- no product was given? How do you  
14 make, what, ZHP or any manufacturer say they  
15 committed fraud because they sold something  
16 if they didn't sell anything. So if there's  
17 no supply, how is it possible if someone  
18 sells something that there's no supply.

19 So I'm just saying that this to  
20 me is not relevant -- sorry, your -- what  
21 exhibit is this?

22 Q. This is Exhibit 8.

23 A. Sorry. Oh, I see that.

24 Exhibit 8 does not help inform

1 I'm relying on my frameworks, depending on  
2 how that message was communicated, if you say  
3 carcinogen-laced the way you said it versus a  
4 valsartan that may contain impurities, the  
5 individual's -- I'm using MICI factors -- the  
6 individual's status, so if they were happy  
7 with their valsartan and had -- as I shared  
8 in my report in Section IV.E, they were happy  
9 with their valsartan, they had serious health  
10 issues, they may have even tried alternative  
11 medications and felt that the valsartan was  
12 the best at controlling their hypertension,  
13 and contextual factors, how much their  
14 relationship with their doctor and their  
15 ability or inability to have a healthy  
16 lifestyle, all of those factors would have an  
17 impact on what they thought the drug was  
18 worth.

19 BY MR. DAVIS:

20 Q. Okay. But you're not answering  
21 my question.

22 My question is, if there's no  
23 supply after the recall, as you can see from  
24 the sales data, even if a consumer -- like

1 let's just assume that there is a consumer  
2 who does want ZHP valsartan after the recall  
3 and wants to go get a new prescription of it  
4 from their doctor, the result is just like it  
5 was with Fen-Phen, they can't get it, right?

6 A. I'm assuming that is the case,  
7 yes.

8 Q. And they would end up,  
9 therefore, paying no money for it, correct?

10 A. Yes.

11 Q. Okay. Thank you.

12 And there would be no  
13 intersection of -- sorry, showing you my  
14 screen, you've got it right there.

15 A. Yes.

16 Q. There would be no intersection  
17 of supply and demand in that very specific  
18 situation I just asked you about, correct?

19 A. Correct.

20 Q. Okay. Thank you.

21 A. Should I put these away?

22 Q. Sure.

23 A. Okay.

24 MR. DAVIS: I'm marking

1 Exhibit 9.

2 (Whereupon, Keller Exhibit  
3 Number 9 was marked for  
4 identification.)

5 BY MR. DAVIS:

6 Q. This is a -- can you identify  
7 this document for me?

8 A. No.

9 Q. I'll represent to you that it's  
10 a valsartan -- I'll represent to you that  
11 it's a valsartan label, which may or may  
12 not -- I think, we looked at your materials  
13 considered.

14 Is this a document you recall  
15 seeing ever?

16 A. No.

17 Q. Okay. I'll represent to you --  
18 but, you know, you're free to look, but I'll  
19 represent to you that there's no mention of  
20 nitrosamines, NDMA, NDEA, anywhere in this  
21 label.

22 Are you willing to accept that,  
23 or do you want to take a look?

24 A. I actually don't have any idea



1     what is in this label period, so I don't know  
2     how to understand the absence of the two  
3     impurities you just mentioned.

4             Q.       Well, I'm not asking you yet to  
5     understand the absence of them. I'm just  
6     asking you if you see any reference to them  
7     in that document.

8             A.       I cannot do that. You're  
9     asking if there's any reference, and I don't  
10    know if there's any reference without having  
11    a chance to review the document.

12            Q.       Okay. So you're not willing to  
13    take my word for it that they're not in  
14    there? You're willing to look. Why don't  
15    you take a look, that's fine.

16                    Do you want to look at -- and I  
17    can direct your attention, for example, to  
18    make this go a little faster, okay, if you  
19    don't mind, go to the very last page.

20                    Do you see that last question  
21    there, "What are the ingredients in Diovan?"

22             A.       I do.

23             Q.       Okay. Do you see any reference  
24    to NDEA, NDMA?

1           A.       I am not a chemist. I don't  
2       know the different forms and labels. Those  
3       drugs may be represented some other way. I  
4       cannot answer the question.

5           Q.       Would you agree with me --  
6       let's start with just a very general  
7       proposition.

8                        Would you agree with me that a  
9       manufacturer of valsartan when they  
10      distribute it into the US market, by calling  
11      it valsartan and by distributing this label  
12      with it, they're conveying some kind of  
13      message to the people that will interact with  
14      it, namely physicians and consumers, correct?

15                   MR. GOLDBERG: Objection to  
16      form. Foundation.

17           A.       Please be more specific.

18      BY MR. DAVIS:

19           Q.       Do you think that by -- when a  
20      manufacturer of valsartan distributes  
21      valsartan in the US market, by calling it  
22      valsartan, are they conveying a message that  
23      it's valsartan? It's a pretty general  
24      proposition, right?

1 multiple messages? It's a pretty simple  
2 question.

3 A. I cannot answer that question.  
4 I mean, if you're just saying is there  
5 communication about valsartan in here? I  
6 would say yes. For me, a message has a  
7 different meaning, and I would need to read  
8 the document to understand what the  
9 message -- multiple messages might be.

10 Q. Okay. Let's go back to your  
11 report for a moment, and again that section E  
12 that's titled Real-world evidence indicates  
13 that the at-issue VCDs held value.

14 A. Yes.

15 Q. And I understand you have --  
16 you know, and I'm going to try and  
17 short-circuit a long back and forth here by  
18 stating that I understand that you have quite  
19 a few sources of general applicability here  
20 to support what you're saying amounts to  
21 real-world evidence of value.

22 My question very specifically  
23 here is, what evidence from this fact  
24 situation and case specifically, what

1 valsartan-specific evidence do you have that  
2 is real-world evidence that indicates that  
3 the VCDs at issue had value?

4 A. I have evidence from the  
5 individual depositions from the plaintiffs,  
6 and I have quoted some of them, who said that  
7 the at-issue VCDs provided them with  
8 therapeutic benefit.

9 I want to qualify, this is a  
10 small subset of depositions. I know that  
11 there were probably thousands if not tens of  
12 thousands consumers who took valsartan and  
13 this is a small group. But this is one  
14 source of evidence that consumers who took  
15 the at-issue valsartan said that -- some of  
16 them, not all of them -- that it helped them  
17 with controlling their blood pressure, that  
18 they had fewer side effects such as  
19 light-headedness and dizziness and nausea,  
20 and that they did not suffer any extreme  
21 emotional consequences to the point of  
22 actually seeking professional help. So those  
23 are just some examples of value from the  
24 real-world evidence.

1 I also -- the other sources of  
2 value also come from information in the  
3 public press as well as in some of the  
4 depositions, in the individual plaintiff  
5 depositions, where physicians are either  
6 publicly recommended, for example, I believe  
7 Dr. Neeson, to AARP group members that, you  
8 know, they should not stop taking the  
9 at-issue VCDs on their own without talking to  
10 their physicians because it is more important  
11 to control their blood pressure, and they  
12 could face very serious consequences, health  
13 consequences if they stopped, and that it  
14 would be -- the trade-off would be -- even if  
15 there were any problems in the short or the  
16 long-term with regard to any of the potential  
17 cancers, which again would vary across  
18 individuals, that the immediate serious  
19 health consequence of stopping their at-issue  
20 VCDs would be serious.

21 So the sources, just to sum,  
22 are the plaintiff depositions as well as --  
23 as well as physicians. This includes  
24 cardiologists who shared that the at-issue

1 VCDs held value.

2 Q. Anything else, or those two?

3 A. I will also add -- thank you  
4 for asking -- the FDA also mentioned that  
5 consumers or patients who were taking the  
6 at-issue VCDs should not stop taking the  
7 VCDs, thereby indicating that they held  
8 value, unless, you know, an alternative was  
9 available to them. So that is also a source.

10 So I appreciate your giving me  
11 a chance.

12 Q. Sure.

13 So you've identified those  
14 three things. Is that everything?

15 A. To the best of my recall.

16 Q. Sure. Okay. Well, let's, I  
17 guess, take them somewhat in order.

18 You concede, you know, for the  
19 first point, which is the plaintiff  
20 depositions, you do concede at paragraph 52  
21 that in your view "The statements of  
22 consumers, particularly those...in  
23 litigation, regarding their retrospective  
24 valuation of at-issue VCDs may not be